



## Course syllabus

Faculty Board of Science and Engineering  
School of Computer Science, Physics and Mathematics

5IK004 Systemtänkande, 7,5 högskolepoäng  
Systems Thinking, 7.5 credits

### **Main field of study**

Information Systems

### **Subject Group**

Informatics/Computer and Systems Sciences

### **Level of classification**

Second Level

### **Progression**

A1N

### **Date of Ratification**

Approved by Organisational Committee 2009-09-08

The course syllabus is valid from spring semester 2010

### **Prerequisites**

A minimum of 30 Higher Education Credits at the B3 level in Computer Science, Information Systems Science or the equivalent.

## Expected learning outcomes

To successfully pass the course you should be able to

- give an account of different schools in systems thinking
- give an account of different models and methodologies within the critical systems thinking approach
- make boundary judgments and analyze effects of technology based on different stakeholder perspectives
- apply appropriate systems models and methodologies in cases characterized by high complexity, uncertainty, and conflicting interests
- analyze important and current scientific articles within systems science.

## Content

The course provides a basic description of the area information systems analysis and systems theory. The course includes elements on:

- comparative studies of different types of approaches to systems analysis
- analysis of critical systems theory
- current research articles in systems theory
- applications of systems theory.

## Type of Instruction

The course consists of lectures, seminars and tutoring

## Examination

The course is assessed with the grades Fail (U), Pass (G) or Pass with Distinction (VG).

Written and/or oral examinations and/or mandatory work. The types of assessment used in the course will be decided on at the beginning of the course.

On request, students may have their credits translated to ECTS-marks. Such a request must be sent to the examiner before the grading process starts.

## Course Evaluation

A written course evaluation will be carried out at the end of the course in accordance with the guidelines of the University. The course evaluation will be filed at the department.

## Required Reading and Additional Study Material

### **Required reading**

MSI, *Compendium*, Växjö universitet, current year. Pages 100.

Other literature will be announced at the start of the course.